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Application No. <u>4619150</u>	Prepared by <u>B.M.G.</u>	Tracking Number <u>5969796</u>	
Examiner-GAU <u>Snider - 1744</u>	Date <u>7-20-04</u>	Week Date <u>6-21-04</u>	
	No. of queries <u>1 CA</u>	<u>LFW</u>	

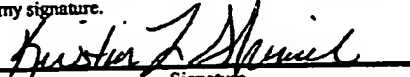
JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

SPECIFICATION	MESSAGE
a. Page Missing	<u>PTO-1449k dated 10-16-03 need</u> <u>examiner's initials. Please resolve.</u>
b. Text Continuity	
c. Holes through Data	
d. Other Missing Text	
e. Illegible Text	
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g. Brief Description	
h. Sequence Listing	
i. Appendix	
j. Amendments	
k. Other	
CLAIMS	
a. Claim(s) Missing	
b. Improper Dependency	
c. Duplicate Numbers	
d. Incorrect Numbering	initials <u>B.M.G.</u>
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f. Punctuation	
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k. Other	initials

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Victor W. THOMAS, Sr., et al.
Serial No.: 10/619,150
Filed: July 14, 2003
For: FLOOR CLEANING APPARATUS

I, Kristin L. Shimeck, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.


Signature
14 October 2003
Date of Signature

8310 16th Street
P.O. Box 902
Sturtevant, WI 53177-0902

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

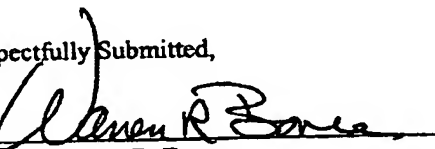
In compliance with the duty of disclosure under 37 C.F.R. §1.56, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of all listed documents were produced in the parent application (Application Serial No. 09/588,414, filed June 6, 2000), and are therefore not included.

However, Applicants realized that U.S. Patent No. 5,353,138, was incorrectly cited in the parent case by typographical error. A copy of the correct reference (U.S. Patent 5,454,138) was submitted in the prior case, however, for the Examiner's convenience, a copy is included herewith. The attached Form 1449 has been corrected to remedy the typographical error.

Please charge any fees required for consideration of this information disclosure statement to Deposit Account No. 50-0231.

Respectfully Submitted,

By:


Warren R. Bovee
Registration No. 26,434

Phone: (262) 631-4196
Attachments

Form PTO-1449
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

NEW ATTY. DOCKET NO.
CM-052B

SERIAL NO.
10/619,150

APPLICANT

Victor W. THOMAS, Sr., et al.

FILING DATE

July 14, 2003

GROUP ART UNIT

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
						YES	NO
	112667	5/1/89	CN	A47L		X	
	123375	11/21/89	CN	A47L		X	
	162083	7/1/91	CN	A47L11	16	X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

- EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

CM-052 B

10/619,150

Applicant(s)
Thomas et al.

Filing Date
July 14, 2003

Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		901,978	10-27-1908	Mally et al.			
		3,197,798	08-03-1965	Brown et al.			
		4,380,844	04-26-1983	Waldhauser et al.			
		5,454,138	10-3-1995	Mondigo et al.			
		5,940,928	08-24-1999	Erko			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. CM-052 B		SERIAL NO. 10/619,150	
				APPLICANT(S) Thomas et al.			
				FILING DATE July 14, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		3,204,280	9/7/65	C. Cambell			
		3,742,546	7/3/73	Crener et al.			
		3,795,933	3/12/74	Seufert			
		3,921,244	11/25/75	Warren et al.			
		3,931,659	1/13/76	Pfefferkorn et al.			
		3,942,215	3/9/76	Olds			
		3,952,361	4/27/76	Wilkins			
		3,972,088	8/3/76	Thomas			
		4,094,034	6/13/78	Wilkins et al.			
		4,096,084	6/20/78	Thomsen et al.			
		4,114,711	9/19/78	Wilkins			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		0569984A1	18.11.93	European Patent Office			
		EP0951858A1	27.10.99	European Patent Office			
		WO 95/09557	13.4.95	WIPO			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Brooks, Rodney A., "The Behavior Language; User's Guide", Massachusetts Institute of Technology Artificial Intelligence Laboratory, page: 1-34, April, 1990.					
		Brooks, Rodney A., "Integrated Systems Based on Behaviors", Massachusetts Institute of Technology Artificial Labratory, page: 1-5.					
EXAMINER				DATE CONSIDERED			
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GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,118,819	10/10/78	Gordon et al.			
	4,122,576	10/31/78	Bevington et al.			
	4,150,456	4/24/79	Alvarez et al.			
	4,214,337	7/29/80	Nise et al.			
	4,237,571	12/9/80	Nelson			
	4,295,243	10/20/81	King			
	4,322,920	4/6/82	Wells			
	4,393,534	7/19/83	Lee et al.			
	4,492,002	1/8/85	Waldhauser et al.			
	4,577,364	3/25/86	Demetriades			
	4,506,405	3/26/85	Block			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Evans, John M., "HelpMate: a service robot success story", Service Robot: An International Journal, Vol. 1, No. 1, MCB University Press, pages: 19-21, (1995).
	Hofner, Christian and Gunther Schmidt, "Path Planning And Guidance Techniques For An Autonomous Mobile Cleaning Robot", Department for Automatic Control Engineering (LSR) Technische Universitat Munchen, Germany, pages: 610-617.

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,633,541	1/6/87	Block			
		4,783,872	11/15/88	Burhoe			
		4,790,402	12/13/88	Field et al.			
		4,819,676	4/11/89	Blebert et al.			
		4,825,500	5/2/89	Basham et al.			
		4,910,824	3/27/90	Nagayama et al.			
		4,940,082	7/10/90	Roden			
		4,958,068	9/18/90	Pong et al.			
		5,020,620	6/4/91	Field			
		5,032,775	7/16/91	Mizuno et al.			
		5,064,010	11/12/91	Masbruch et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Jenkins, Frank, "Practical Requirements for a Domestic Vacuum-Cleaning Robot", JRL Consulting, P.O. Box 1289, Menlo Park, CA 94026, pages: 85-90.					
		Leng, Goh Wee, "An Expert Autonomous Vacuum Cleaner Robot", School of Electrical & Electronic Engineering, Nanyang Technological Institute, Singapore, pages: 598-604, 1988.					
EXAMINER				DATE CONSIDERED			
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	APPLICANT(S) Thomas et al.	
	FILING DATE July 14, 2003	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,093,955	3/10/92	Blebert et al.			
	5,148,573	9/22/92	Killian et al.			
	5,212,848	5/25/93	Geyer			
	5,253,384	10/19/93	Joines et al.			
	5,254,146	10/19/93	Beaufoy			
	5,287,581	2/22/94	Lo			
	5,289,605	3/1/94	Armbruster			
	5,293,955	3/15/94	Lee			
	5,307,273	4/26/94	Oh et al.			
	5,371,912	12/13/94	Hall			
	5,402,051	3/28/95	Fujiwara et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Schofield, Monica, "Cleaning Robots", Service Robot: An International Journal, Vol. 1, No. 3, MCB University Press, pages: 11-16, (1995).
	Ward, Charles W., "Sweeping Revelations From A First Time Robot-User", Commercial Services of Virginia, Inc., pages: 14-1 to 14-6.

EXAMINER	DATE CONSIDERED
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				APPLICANT(S) Thomas et al.			
				FILING DATE July 14, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,402,559	4/4/95	Allison et al.			
		5,440,216	8/8/95	Kim			
		5,467,500	11/21/95	O'Hara et al.			
		5,534,762	7/9/96	Kim			
		5,548,511	8/20/96	Bancroft			
		5,566,422	10/22/96	Geyer			
		5,611,105	3/18/97	Blehert et al.			
		5,613,261	3/25/97	Kawakami et al.			
		5,621,291	4/15/97	Lee			
		5,623,743	4/29/97	Burgoon et al.			
		5,636,402	6/10/97	Kubo et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Yaguchi, Hiroshi, "Robot introduction to cleaning work in the East Japan Railway Company", Advanced Robotics, Vol. 10 No.4, VSP and Robotics Society of Japan, pages: 403-414, (1996).					
EXAMINER				DATE CONSIDERED			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

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APPLICANT(S)
Thomas et al.

FILING DATE
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GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,646,494	7/8/97	Han			
	5,742,975	4/28/98	Knowlton et al.			
	5,815,880	10/6/98	Nakanishi			
	6,023,813	2/15/00	Thatcher et al.			
	4,059,863	11/29/77	Deuchar et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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INFORMATION DISCLOSURE CITATION
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Docket Number (Optional)
CM-052B

Application Number
10/619,150

Applicant(s)
Thomas et al.

Filing Date
July 14, 2003

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2,622,254	12-23-1952	C. Mendelson	15	52	

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	WO 93/18699	30-09-1993	WIPO			✓	
	WO 01/60227 A1	23-08-2001	WIPO			✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

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Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		NEW ATTY. DOCKET NO. CM-052B		SERIAL NO. 10/619,150	
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				APPLICANT Victor W. THOMAS, Sr., et al.			
				FILING DATE July 14, 2003		GROUP ART UNIT	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		6,357,070	3/19/02	Venard, et al.			
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
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